Operator's Safety and Service Manual

AP1400 & GP1800

This manual covers the following serial numbers and higher for each model listed:

1400.....1230050

1800.....1800154

VIBRATORY PLATES

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WARNING

CALIFORNIA PROPOSITION 65 WARNING

Engine exhaust and some of its constituents are known in the state of California to cause cancer, birth defects, and other reproductive harm.

SAFETY INFORMATION

Introduction

This Safety Alert Symbol is used to call attention to items or operations which may be dangerous to those operating or working with this equipment. The symbol can be found throughout this manual and on the unit. Please read these warnings and cautions, along with all decals, carefully before attempting to operate the unit. Make sure every individual who operates or works with this equipment is familiar with all safety precautions.

⚠ WARNING ⚠

GENERAL WARNING. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

⚠ CAUTION ⚠

GENERAL CAUTION. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment.

Safety Precautions

LETHAL EXHAUST GAS: An internal combustion engine discharges carbon monoxide, a poisonous, odorless, invisible gas. Death or serious illness may result if inhaled. Operate only in an area with proper ventilation. NEVER OPERATE IN A CONFINED AREA!

DANGEROUS FUELS: Use extreme caution when storing, handling and using fuels, as they are highly volatile and explosive in vapor state. Do not add fuel while engine is running. Stop and cool the engine before adding fuel. DO NOT SMOKE!

SAFETY GUARDS: It is the owner's responsibility to ensure that all guards and shields are in place and in working order.

IGNITION SYSTEMS: Breakerless, magneto, and battery ignition systems can cause severe electrical shocks. Avoid contacting these units or their wiring.

SAFE DRESS: Do not wear loose clothing, rings, wristwatches, etc. near machinery.

NOISE PROTECTION: Wear OSHA specified hearing protection devices.

EYE PROTECTION: Wear OSHA specified eye shields, safety glasses, and sweat bands.

FOOT PROTECTION: Wear OSHA specified steel-tipped safety shoes.

HEAD PROTECTION: Wear OSHA specified safety helmets.

DUST PROTECTION: Wear OSHA specified dust mask or respirator.

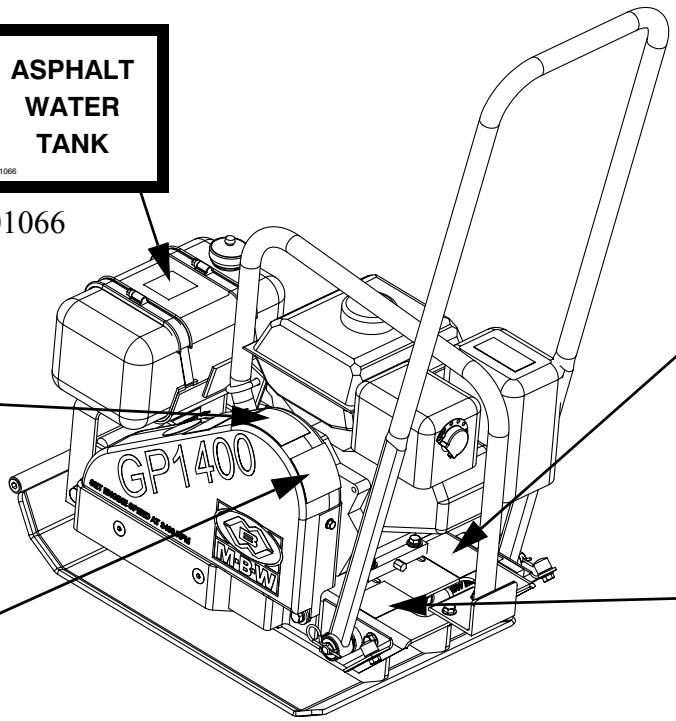
OPERATOR: Keep children and bystanders off and away from the equipment.

REFERENCES: For details on safety rules and regulations in the United States, contact your local Occupational Safety and Health Administration (OSHA) office. Equipment operated in other countries must be operated and serviced in accordance and compliance with any and all safety requirements of that country. The publication of these safety precautions is done for your information. MBW does not by the publication of these precautions, imply or in any way represent that these are the sum of all dangers present near MBW equipment. If you are operating MBW equipment, it is your responsibility to insure that such operation is in full accordance with all applicable safety requirements and codes. All requirements of the United States Federal Occupational Safety and Health Administration Act must be met when operated in areas that are under the jurisdiction of that United States Department.

Safety Decals

Carefully read and follow all safety decals. Keep them in good condition. If decals become damaged, replace as required. If repainting the unit, replace all decals. Decals are available from authorized MBW distributors. Order the decal set listed on the following page(s).

1400 SERIES: OPTIONAL ROLLCAGE & WATER TANK



ASPHALT WATER TANK
01066

01066

WARNING
ROTATING PARTS can crush and cut. Keep hands away!
12573

12573

CAUTION
Read the Operating Instructions before operating this piece of equipment.
Keep unauthorized and untrained people away from this equipment.
ROTATING & MOVING PARTS! Make sure all guards and safety devices are in place.
Wear approved hearing protection, foot protection, eye protection and head protection.
SHUT OFF the motor before servicing or cleaning.
DO NOT RUN in an enclosed area. The engine produces carbon monoxide, a **POISONOUS GAS**.
Failure to comply could result in serious bodily injury.
13483

13483

PLATES OPERATING INSTRUCTIONS
1. Check engine oil.
2. Open fuel valve.
3. Choke engine. A warm engine may not need to be choked.
4. Open throttle part way.
5. Pull starter rope.
6. After starting: open choke, return throttle to idle position.
7. During operation, when excessive kickback is noticed, maximum compaction has been reached.
8. To stop: Return throttle to idle position, use engine stop switch, close fuel valve.
13482

13482

MODEL	SERIAL NO
1400	

GROUND POUNDER DIV.
M-B-W INC.
SLINGER, WI 53086

MODEL	SERIAL NO
1400	

18676

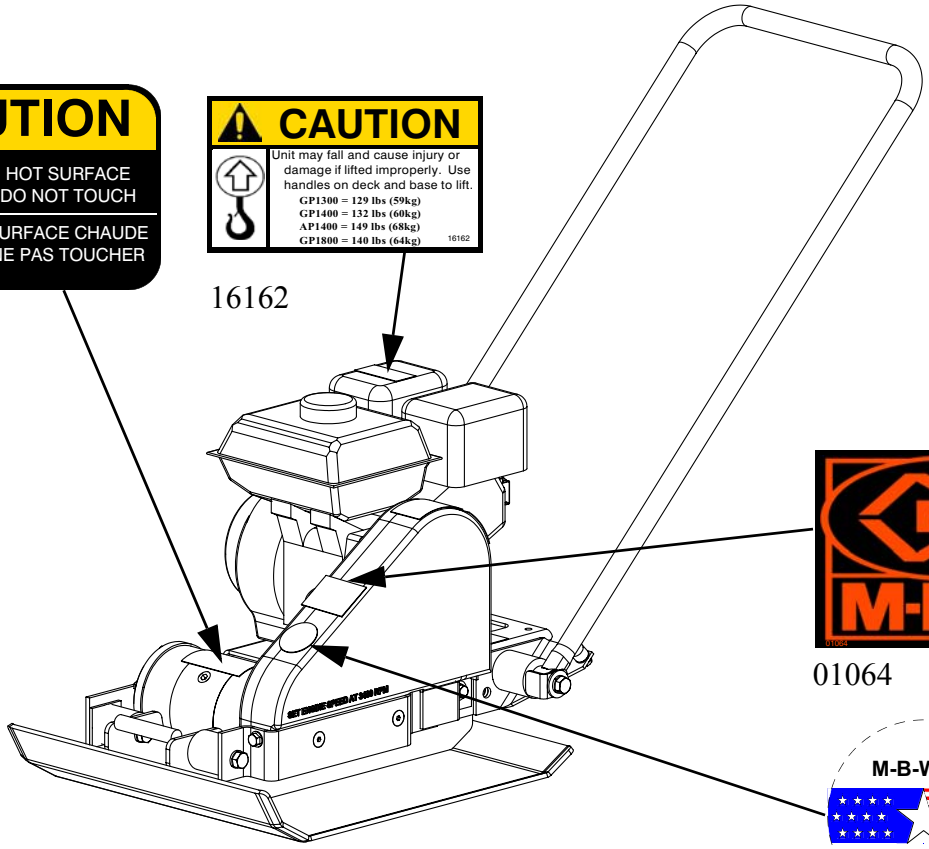
18676 - 1400
16944 - 1800

CAUTION
HOT SURFACE
DO NOT TOUCH
SURFACE CHAUDE
NE PAS TOUCHER

09311

CAUTION
Unit may fall and cause injury or damage if lifted improperly. Use handles on deck and base to lift.
GP1300 = 129 lbs (59kg)
GP1400 = 132 lbs (60kg)
AP1400 = 149 lbs (68kg)
GP1800 = 140 lbs (64kg)
16162

16162



M-B-W
01064

01064

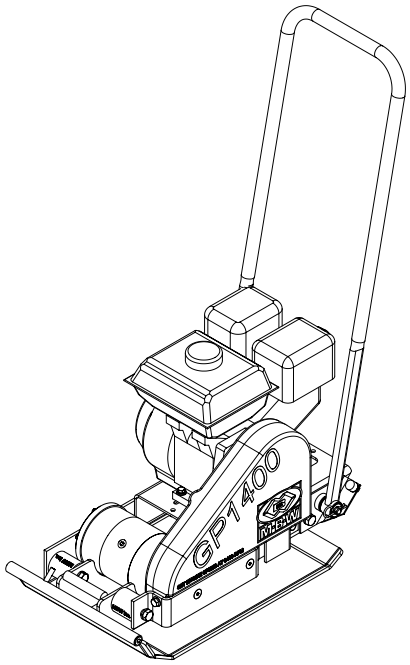
M-B-W INC.
MADE IN U.S.A.

12500

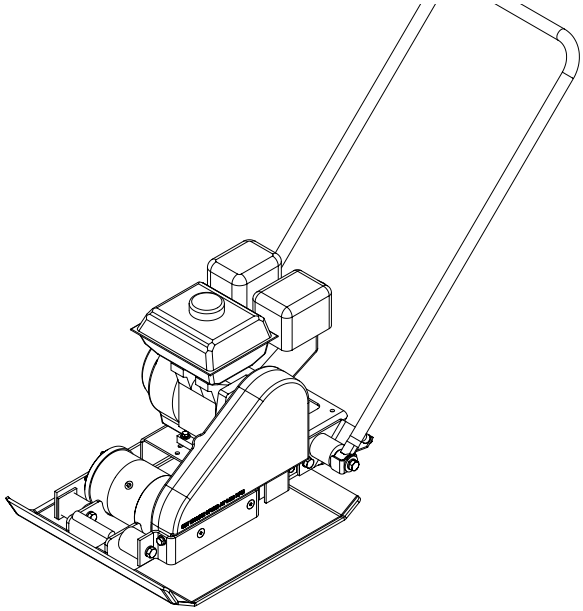
1800 SERIES

Safety Decals (Decal Set #12100)

SPECIFICATIONS



1400 SERIES



1800 SERIES

	AP1400	GP1400	GP1800H	GP1800R
CENTRIFUGAL FORCE	1925lbs/873kg	1925lbs/873kg	2300lbs/1043kg	2300lbs/1043kg
EXCITER (VPM)	5240	5240	4710	4710
TRAVEL SPEED	85 ft./min. (26 m/min.)	85 ft./min. (26 m/min.)	100 ft./min. (30 m/min.)	100 ft./min. (30 m/min.)
COMPACTION DEPTH	10 in. (25 cm)	10 in. (25 cm)	12 in. (30 cm)	12 in. (30 cm)
WIDTH & LENGTH	14 x 21 in. (36 x 53 cm)	14 x 21 in. (36 x 53 cm)	18 x 21 in. (46 x 53 cm)	18 x 21 in. (46 x 53 cm)
OPERATING WEIGHT **HONDA** **ROBIN**	 149 lbs (68 kg) 152 lbs (69kg)	 129 lbs (59 kg) 132 lbs (60kg)	136 lbs (62 kg)	139 lbs (63 kg)
ENGINE SPEED (RPM)	3400	3400	3400	3400
NOISE LEVEL	85 - 92 dBA	85 - 92 dBA	85 - 92 dBA	85 - 92 dBA
ENGINE MODEL	Honda GX120	Robin EX130	Honda GX120	Robin EX130

Specifications subject to change without notice

OPERATION

Introduction

MBW equipment is intended for use in very severe applications. They are powered by four cycle engines and are available in different sizes and a selection of engines.

This parts manual contains only standard parts. Variations of these parts as well as other special parts are not included. Contact your local MBW distributor for assistance in identifying parts not included in this manual.

The MBW 1400 & 1800 compactors are intended to compact various types of soil. Recommended soil types include granular soils and gravel & sand mixtures. These compactors are not intended to be used on cohesive soils such as clay or hard surfaces like concrete.

Before Starting & Operating

- 1400 Series Handle installation. Refer to HANDLE ASSEMBLY, page 16. Install handle on 1400 series plate by removing hairpin form handle mounts. Slide handle over handle mounts and reinstall hairpins.

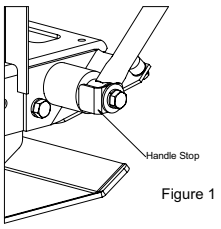


Figure 1

- 1800 Series Handle installation. Refer to HANDLE ASSEMBLY, page 16. Remove hex head cap screws, lockwashers, handle stops and spacers from shockmounts. Reinstall spacer, handle stop, lockwasher and hex head cap screw through the handle from the outside in. Make sure nylon inserts inside of handle handle stay in place. the handle stop bracket should be positioned as shown in figure 1, when hardware is tight.
- REMEMBER! It is the owner's responsibility to communicate information on the safe use and proper operation of this unit to the operators.
- Review ALL of the Safety Precautions listed on page 1 of this manual.
- Familiarize yourself with the operation of the machine and confirm that all controls function properly.
- Know how to STOP the machine in case of an emergency.
- Make sure hands, feet, and clothing are at a safe distance from any moving parts.
- OIL LEVEL - Check the oil level in the engine. For more information see "Lubrication" under the respective engine's "Owners Manual" or the Maintenance section of this manual.
- AIR CLEANER - Check to ensure element is in good condition and properly installed.
- FUEL SUPPLY - The engines on MBW equipment require an automotive grade of clean, fresh, unleaded gasoline.
- FUEL FILTER - If clogged or damaged, replace.

Starting Engine

1. Open fuel valve.
2. Turn engine switch to "ON".
3. Set throttle to idle.
4. Choke engine if necessary (you may not need to choke a warm engine).
5. Pull starter rope repeatedly until engine starts.
6. After starting engine, open choke gradually and let engine warm up at idle.

Operating

1. After engine warms up open fully open throttle. The compactor will begin vibrating and moving forward. The number of passes required to reach a desired compaction level will depend on the type and moisture content of soil. Maximum soil compactions has been reached when excessive kickback is noticed in the compactor.
2. When using a compactor on asphalt a water sprinkling system is required to help prevent the bottom plate from adhering to the hot asphalt surface.

Stopping Engine

1. Move throttle to idle position.
2. Let engine idle for one or two minutes.
3. Turn switch on engine to "STOP" position.
4. Turn off fuel valve.

LIFTING/TRANSPORTING

1. The unit can be lifted by the handles in front and back of the unit as shown in figure 2.
2. The unit must be transported in the upright position. DO NOT lay machine on its side or top.
3. Secure or tie down unit using the lifting handles

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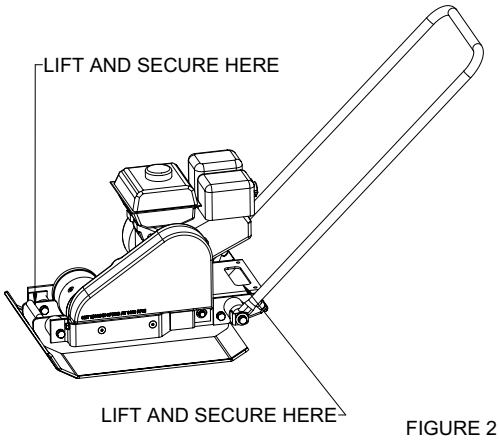


FIGURE 2

⚠ WARNING ⚠

Always stop the engine before:

Adding fuel.

Leaving the equipment unattended for any amount of time.

Before making any repairs or adjustments to the machine.

MAINTENANCE

⚠ WARNING ⚠

Always exercise the stopping procedure before servicing or lubricating the unit.

After servicing the unit, replace and fasten all guards, shields, and covers to their original positions before resuming operation.

⚠ CAUTION ⚠

Always verify fluid levels and check for leaks after changing fluids.

Do not drain oil onto ground, into open streams, or down sewage drains.

Maintenance Schedule

SYSTEM	MAINTENANCE	EACH USE	EVERY 50 HOURS	EVERY 250 HOURS	YEARLY
Engine	Refer to engine operator/owner manual	X			
Exciter	Check oil level		X		X
	Check for oil leaks	X			
	Change oil			X	X
	Tighten Bolts[1]		X		X
Hardware	Check and tighten as needed[1]		X		X
Shockmounts	Check for cracks or tears		X		X

1. Check all hardware after the first 5 hours of use, then follow the maintenance schedule.

Fluid Levels

SYSTEM	FLUID VOLUME	RECOMMENDED OIL
Exciter	4 oz	MBW Ground Pounder® Exciter Oil[1]
Engine	Refer to engine operator/owner manual	

1. MBW #01058---- 6-Pack (8 oz bottles)
   MBW #17320---- 1 quart (32 oz)

Engine Maintenance

Refer to the engine owner's manual for maintenance intervals and procedures.

Engine Speed

1. The engine speed is factory reset according to the specifications section of this manual. Do not tamper with the governor setting. The governor establishes safe operating limits which must not be exceeded.

Assembly and disassembly should be performed by a service technician who has been factory trained on MBW equipment. The unit should be clean and free of debris. Pressure washing before disassembly is recommended.

- Prior to assembly, wash all parts in a suitable cleaner or solvent.
- Check moving parts for wear and failure. Refer to the Replacement section in this manual for tolerance and replacement cycles.
- All shafts and housings should be oiled prior to pressing bearings. Also, ensure that the bearings are pressed square and are seated properly.
- All bearings should be replaced when rebuilding any exciter or gearbox.
- All gaskets and seals should be replaced after any disassembly.

Torque Chart

SIZE	GRADE 2	GRADE 5	GRADE 8
1/4-20	49 in•lbs	76 in•lbs	9 ft•lbs
1/4-28	56 in•lbs	87 in•lbs	10 ft•lbs
5/16-18	8 ft•lbs	13 ft•lbs	18 ft•lbs
5/16-24	9 ft•lbs	14 ft•lbs	20 ft•lbs
3/8-16	15 ft•lbs	23 ft•lbs	33 ft•lbs
3/8-24	17 ft•lbs	26 ft•lbs	37 ft•lbs
7/16-14	24 ft•lbs	37 ft•lbs	52 ft•lbs
7/16-20	27 ft•lbs	41 ft•lbs	58 ft•lbs
1/2-13	37 ft•lbs	57 ft•lbs	80 ft•lbs
1/2-20	41 ft•lbs	64 ft•lbs	90 ft•lbs
9/16-12	53 ft•lbs	82 ft•lbs	115 ft•lbs
5/8-11	73 ft•lbs	112 ft•lbs	159 ft•lbs
5/8-18	83 ft•lbs	112 ft•lbs	180 ft•lbs
M 6	3 ft•lbs	4 ft•lbs	7 ft•lbs
M 8	6 ft•lbs	10 ft•lbs	18 ft•lbs
M 10	10 ft•lbs	20 ft•lbs	30 ft•lbs

CONVERSIONS

in•lbs x 0.083 = ft•lbs

ft•lbs x 12 = in•lbs

ft•lbs x 0.1383 = kg•m

ft•lbs x 1.3558 = N•m

Service Tools

Part No.	Description
01058	6-Pack Grounder Pounder® Exciter Oil
016129	Rubber Test Mat
12100	Decal Set

Engine Maintenance

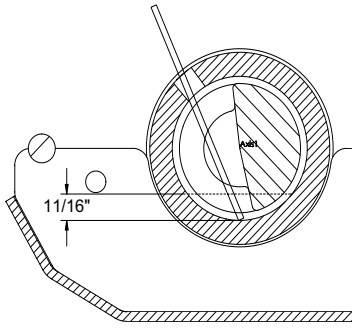
1. Refer to engine Owner's Manual for maintenance shcedule.

Engine RPM

1. Refer to the engine Owner's Manual for procedure to set the operating and idle speed.
2. The engine operating speed should be set to 3400 RPM.
3. The engine idle speed should not exceed 1800 RPM. If the idle speed is greater than 1800 RPM the clutch may not disengage.

Checking Exciter Oil Level

1. Clean all dirt and debris from exciter.
2. Place the plate on a level surface.
3. Remove plug from top of exciter housing.
4. Place a clean metal rod or screwdriver (less than 1/4" diameter and at least 6" long) into the exciter housing Use the rod to rotate the exciter shaft into the position shown in Figure 2.



5. The exciter should have approximately 11/16" of oil in the bottom of the housing. If the oil level is low add MBW Inc. Ground Pounder® exciter oil to bring the oil up to the proper level. Drain any excess oil (see Changing Exciter Oil section).
6. Apply pipe sealant to the plug and reinstall.

Changing Exciter Oil

Refer to EXCITER ASSEMBLY, page 12.

1. Allow machine to completely cool down before performing any service or maintenance.
2. Clean debris from exciter, engine deck and base plate.
3. Drain all gasoline from fuel tank.
4. Drain oil from engine or remove engine from engine deck before proceeding to next step. Failure to do this could result in damage to the engine.
5. Tilt plate forward so the oil drains from the exciter housing into a pan as shown in Figure 3.
6. After the oil is drained, tilt the plate to it's normal upright position and wipe any excess oil from the plate. Do not get debris in the exciter drain hole.
7. Fill the exciter housing with 4 oz. (120 ml) of MBW Inc. Grounder Pounder® exciter oil. **DO NOT OVERFILL - over filling can result in excessive temperatures in the exciter.**
8. Apply pipe sealant to the plug and reinstall.
9. Discard the used oil and any contaminated debris in a proper container.
10. Refill engine with oil or reinstall engine.

Cleanup

1. Remove dirt and debris from plate daily.
2. If repainting plate, be sure that all decals are masked.
3. Replace any decals that are damaged.

Belt Adjustment

Refer to MAIN ASSEMBLY, page 14.

1. Remove all hardware securing beltgaurd to engine deck and remove beltguard.
2. Apply moderate thumb pressure to belt about half way between pulleys. When properly adjusted the belt should deflect approximately 3/8" (9mm). If the belt is adjusted correctly reinstall beltguard and hardware.
3. To adjust belt tension loosen (4) hex head cap screws securing engine to engine deck.
4. Push engine towards the back of the plate. While holding pressure on the engine retighten (4) hex head cap screws securing engine to engine deck.
5. Recheck belt tension as described in step 2 and readjust if necessary until the proper tension is reached.

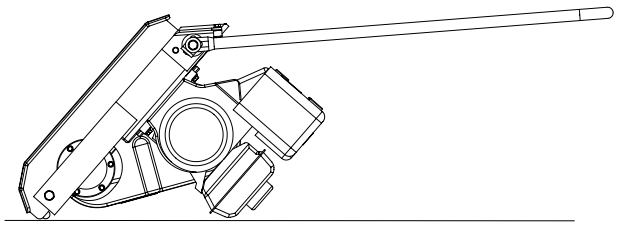


Figure 3.

6. Reinstall beltguard using hardware from step 1.

Engine Removal

Refer to MAIN ASSEMBLY, page 14.

1. Remove hardware and beltguard as described in earlier section.
2. Remove (4) bolts securing engine to engine deck.
3. Slide engine forward and remove belt and engine.

Exciter Disassembly

Refer to EXCITER ASSEMBLY, page 12.

1. Remove engine and beltguard as described in earlier section.
2. Remove (4) hex head cap screws securing engine deck to shockmounts/base plate and remove engine deck.
3. Clean the entire baseplate to remove all dirt and debris.
4. Drain exciter oil as described in Changing Exciter Oil section of this manual.
5. Remove screw and washer securing pulley to exciter shaft. Remove pulley and shaft key.
6. Remove hex head flange screws securing exciter covers to exciter housing. Remove exciter covers and gaskets.
7. Remove exciter shaft by pressing the pulley end of the exciter shaft towards the opposite side of the housing. This will push the exciter shaft and the bearing opposite the pulley side out of the exciter housing. Press the bearing off of the exciter shaft.
8. Press the remaining bearing out of the exciter housing.
9. Check bearings for wear and replace if necessary as described in Parts Replacement Cycles and Tolerances section of this manual.

Exciter Assembly

Refer to EXCITER ASSEMBLY, page 12.

1. Prior to assembly, clean all parts in a suitable solvent cleaning solution.
2. Inspect all part for wear or failure and replace if necessary as described in Parts Replacement Cycles and Tolerances section of this manual.
3. Replace all seals and gaskets at every overhaul or disassembly.
4. All shafts and housings should be oiled prior to pressing in bearings. Ensure that all bearings and seals are pressed squarely and properly seated.
5. For proper hardware torque setting refer to Torque Chart table in this section of the manual.
6. Press one of the bearings into the exciter housing opposite of the pulley side.
7. Press the second bearing onto the pulley side of the exciter shaft
8. Support the bearing in the exciter housing while pressing the exciter shaft into the housing. Press the exciter shaft into the housing until the bearing on the pulley side of the shaft is properly seated in the housing.
9. Place a washer seal onto the exciter shaft.
10. Install a new seal into the pulley side exciter cover. Lubricate lip of seal with fresh exciter oil.
11. Assemble a new gasket and pulley side exciter cover to the exciter housing. Apply medium strength thread locking liquid to the hex head flange screws securing the cover to the housing and torque to proper setting.
12. Assemble opposite side exciter cover and new gasket to exciter housing. Install hex head flange screws, applying medium strength thread locking liquid and torque to proper setting.
13. Install shaft key and slide pulley onto exciter shaft. Replace washer and screw securing pulley to shaft and torque to proper setting.
14. Fill exciter housing with oil as described in Changing Exciter Oil section of this manual.

Parts Replacement Cycles and Tolerances

Bearings	Replace anytime a bearing is rough, binding, discolored or removed from housing or shaft.
Clutch	Replace clutch if it does not disengage below 1800 rpm.
Engine Components	Refer to your engine manufacturer's Owner's Manual.
Hardware	Replace any worn or damaged hardware as needed. Replacement hardware should be grade 5 and zinc plated unless otherwise specified.
Safety Decals	Replace if they become damaged or illegible.
Seals & Gaskets	Replace if a leak is detected and at every overhaul or teardown.
V-Belts	Replace if cracked, torn, or stretched to the point the belt won't tension properly.
Exciter Oil	Replace once every season or every 250 hours. Use 4 ounces of oil from the 6-pack of MBW Inc. #01058 Grounder Pounder® Exciter Oil.

Replacement Parts

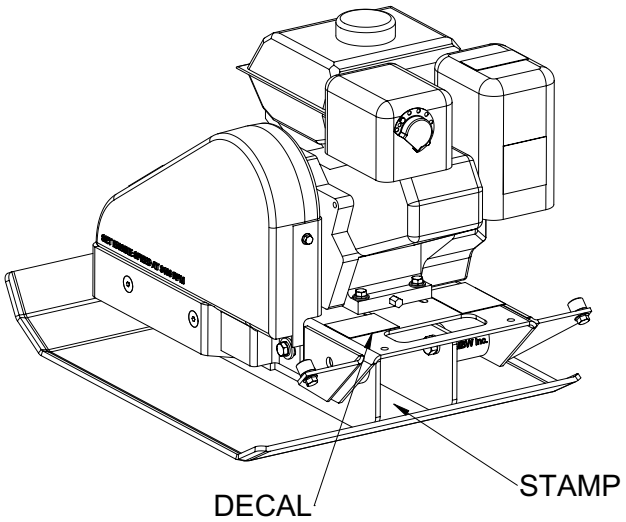
The warranty is stated in this book on page 22. Failure to return the Warranty Registration Card renders the warranty null and void.

MBW has established a network of reputable distributors/ dealers with trained mechanics and full facilities for maintenance and rebuilding, and to carry an adequate parts stock in all areas of the country. Their sales engineers are available for professional consultation. If you cannot locate an MBW distributor in your area, contact MBW or one of our Sales Branches listed below.

When ordering replacement parts, be sure to have the following information available:

- Model and Serial Number of machine when ordering MBW parts
- Model and Serial Number of engine when ordering engine parts
- Part Number, Description, and Quantity
- Company Name, Address, Zip Code, and Purchase Order Number
- Preferred method of shipping

REMEMBER - You own the best! If repairs are needed, use only MBW parts purchased from authorized MBW distributors.



The unit's serial number can be found in the following locations:

- The model/serial number decal is located on the back of the engine deck, behind the belt guard.
- The serial number is stamped on the back end of the base plate between the vertical shock mount plates.

Write Model Number here

Write Serial Number here

Contact Information

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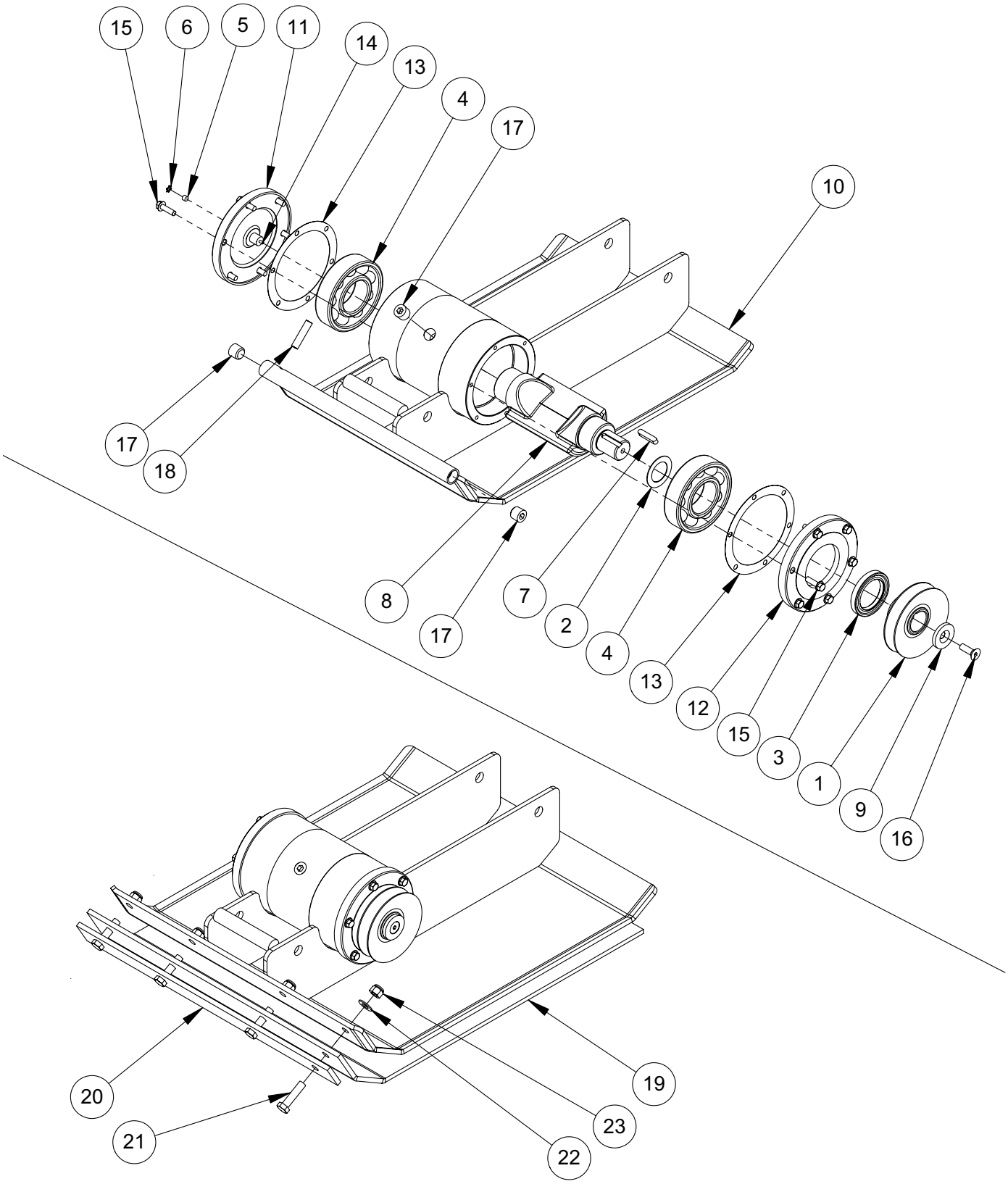
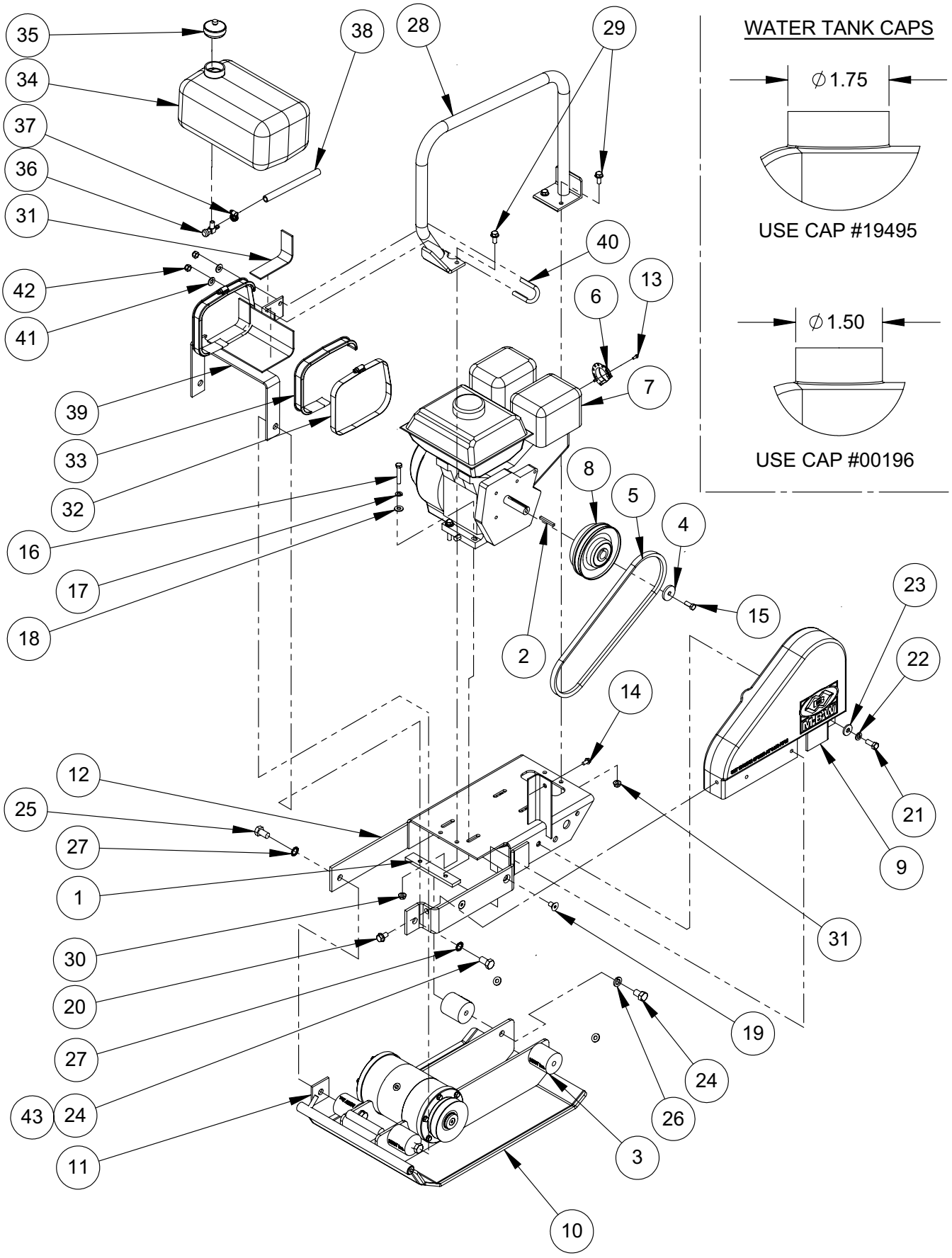


OPTIONAL PAVER PAD KIT

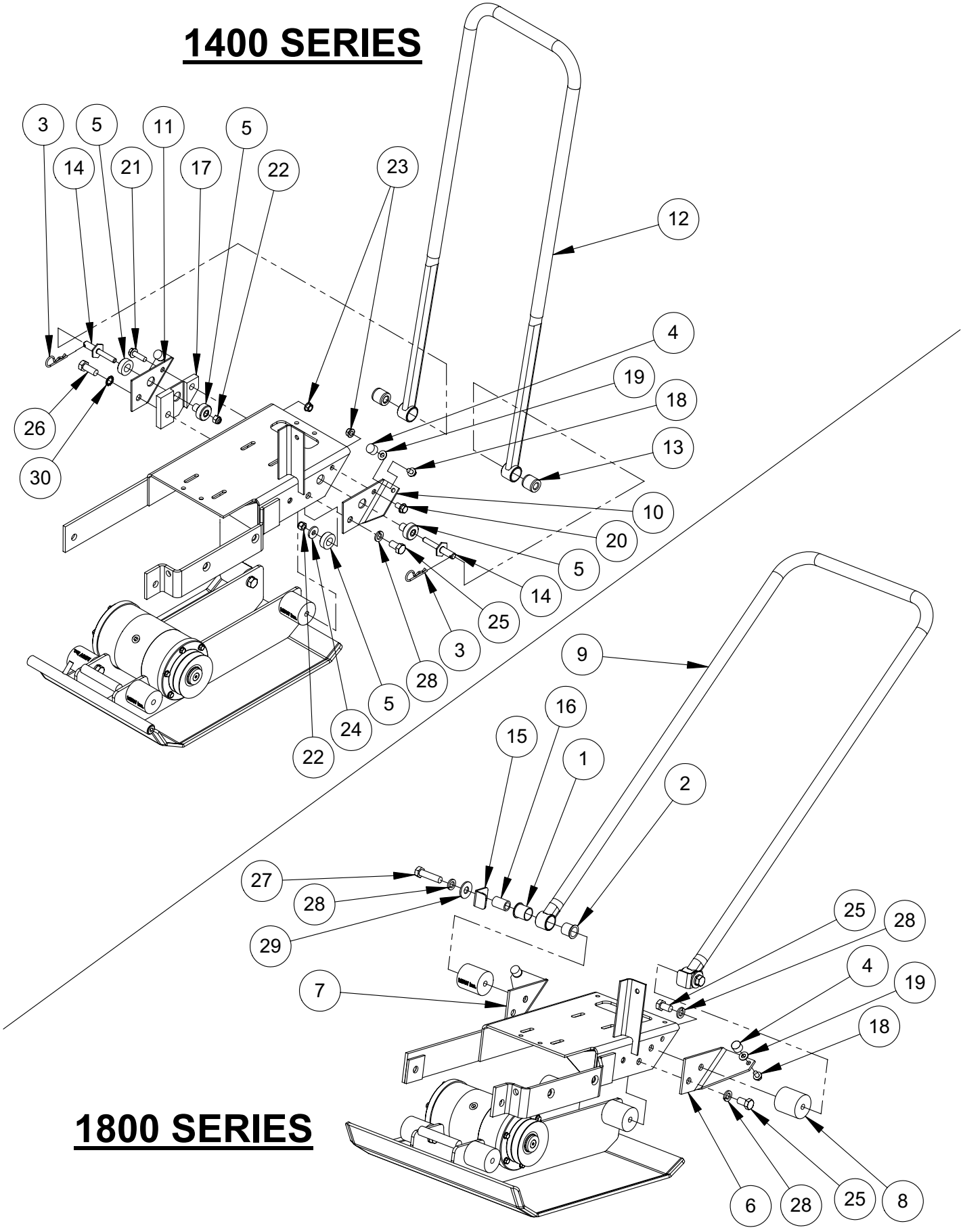
EXCITER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	1400	1800
1.	00348	PULLE, EXCITER	1	1
2.	00062	WASHER, SEAL	1	1
3.	01002	SEAL, OIL	1	1
4.	01070	BEARING, BALL	2	2
5.	01072	FILTER, FELT	1	1
6.	01191	RETAINING RING, INTERNAL	1	1
7.	01283	KEY, 1/4 SQUARE X 1-1/4, ROUND ENDS	1	1
8.	13318	EXCITER SHAFT	1	
	13974	EXCITER SHAFT		1
9.	14993	WASHER, COUNTERUNK		
10.	18629	BOTTOM PLATE	1	
	16912	BOTTOM PLATE		1
11.	15946	EXCITER COVER, SEALED	1	1
12.	15947	EXCITER COVER, PULLEY	1	1
13.	15956	GASKET	2	2
14.	F0205SP	PIN, SPIROL, 1/8 X 5/8 RD	1	1
15.	F042007FWS	HEX HAED FLANGE SCREW, 1/4-20 X 1” LG.	12	12
16.	F051808FSS	FLAT HEAD SET SCREW, 5/16-18 X 1” LG.	1	1
17.	F0618SPP	SOCKET HEAD PIPE PLUG, 3/8-18	3	3
		OPTIONAL WATER KIT		
17.	F0618SPPP	PIPE PLUG	2	
18.	F0612SP	PIN, SPIROL	1	
		PAVER PAD KIT		
	18655	PAVER PAD KIT, 1800 SERIES PLATE		1
	18681	PAVER PAD KIT, 1400 SERIES PLATE	1	
19.	18646	PAVER PAD, RUBBER		1
	18682	PAVER PAD, RUBBER	1	
20.	18643	CLAMPING BAR		1
	18683	CLAMPING BAR	1	
21.	F061612HCS	HEX HEAD CAP SCREW, 3/8-16 X 1-1/2” LG.	3	4
22.	F06PW	WASHER, 3/8	3	4
23.	F0616ELN	LOCKNUT, 3/8-16, NYLOC	3	4



MAIN ASSEMBLY

ITEM	PART NO.	DESCRIPTION	1400H	1400R	1800H	1800R
1.	00031	ENGINE MOUNTING BAR	2	2	2	2
2.	00032	KEY, 3/16” SQ. x 1-5/8” LG.	1	1	1	1
3.	01011	SHOCK MOUNT	4	4	4	4
4.	01099	WASHER	1	1	1	1
5.	6931	V-BELT (31)	1	1	1	1
6.	07636	EXHAUST DEFLECTOR	1	1	1	1
7.	12860	ENGINE, HONDA, 4HP	1		1	
	17210	ENGINE, ROBIN, 4.5HP		1		1
8.	16105	CLUTCH, CENTRIFUGAL, 3/4” DIA. BORE	1	1	1	1
9.	18633	BELTGUARD, 1400	1	1		
	16902	BELTGUARD, 1800			1	1
10.	18628	BASEPLATE, 1400	1	1		
	16913	BASEPLATE, 1800			1	1
11.	15994	SPACER **(NOT USED ON 1400 WITH WATER KIT)**	1	1	1	1
12.	16953	ENGINE DECK (1400)	1	1		
	15995	ENGINE DECK (1800)			1	1
13.	F0203HTB	THREAD CUTTING SCREW, #8-32 X 3/16	2	2	2	2
14.	F04200FWS	HEX HEAD FLANGE SCREW, 1/4-20 X 1/2 LG.	1	1	1	1
15.	F052406HCS	HEX HEAD CAP SCREW, 5/16-24 X 3/4 LG.	1	1	1	1
16.	F051814HCS	HEX HEAD CAP SCREW, 5/16-18 X 1-3/4 LG.	4	4	4	4
17.	F05LW	LOCKWASHER, 5/16	4	4	4	4
18.	F05SW	PLAIN WASHER, 5/16	4	4	4	4
19.	F061605FSS	FLAT SOCKET HEAD SCREW, 3/8-16 X 5/8 LG	2	2	2	2
20.	F061605FWS	HEX HEAD FLANGE SCREW, 3/8-16 X 5/8 LG.	1	1	1	1
21.	F061607HCS	HEX HEAD CAP SCREW, 3/8-16 X 7/8 LG.	1	1	1	1
22.	F06LW	LOCKWASHER, 3/8	1	1	1	1
23.	F06SW	PLAIN WASHER, 3/8	1	1	1	1
24.	F081306HCS	HEX HEAD CAP SCREW, 1/2-13 X 3/4 LG.	5	5	5	5
25.	F081307HCS	HEX HEAD CAP SCREW, 1/2-13 X 7/8 LG.	1	1	1	1
26.	F08LW	LOCKWASHER, 1/2	4	4	4	4
27.	M12ETLW	LOCKWASHER, M12, EXTERNAL TOOTH	2	2	2	2
		OPTIONS:				
28.	18667	ROLLCAGE, OPTIONAL	1	1	1	1
29.	F051806FWS	HEX HEAD FLANGE SCREW, 5/16-18 X 3/4 LG	4	4	4	4
30.	F0518FN	FLANGE NUT, 5/16-18	4	4	4	4
		WATER TANK:				
31.	00044	RUBBER PAD	2	2		
32.	01026	CLAMP, WORM DRIVE (LARGE)	2	2		
33.	01028	RUBBER PROFILE	2	2		
34.	00330	WATER TANK ASM. (INCLUDES TANK, CAP & VALVE)	1	1		
35.	19495	TANK CAP - USE WITH 1.75” OD TANK	1	1		
	00196	TANK CAP - USE WITH 1.50” OD TANK				
36.	05578	VALVE	1	1		
37.	08442	CLAMP, WORM DRIVE (SMALL)	1	1		
38.	19607	HOSE, 5/16 X 6.5	1	1		
39.	18639	MOUNTING BRACKET, WATER TANK	1	1		
40.	18642	U-BOLT, 5/16-16, FOR 1.0” ROUND	1	1		
41.	F05SW	PLAIN WASHER, 5/16	2	2		
42.	F0518ELN	LOCKNUT, 5/16-18 NYLOC	2	2		
43.	F081307HCS	HEX HEAD CAP SCREW, 1/2-13 X 7/8 LG.	1	1		



HANDLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	1400	1800
1.	01018	NYLON BUSHING, OUTER		2
2.	01019	NYLON BUSHING, INNER		2
3.	01056	HAIR PIN, 1/8 DIA. X 2-3/8 LG.	2	
4.	15248	RUBBER BUMPER, 3/4 X 5/8	2	2
5.	16759	RUBBER MOUNT	2	
6.	16906	HANDLE STOP, LEFT (1800)		1
7.	16907	HANDLE STOP, RIGHT (1800)		1
8.	16908	RUBBER SHOCKMOUNT, 2 O.D. X 2-1/8 LG.		2
9.	16932	HANDLE, 1800, INCLUDES (2) EACH, #01018 & #010198		1
10.	16954	HANDLE STOP, LEFT (1400)	1	
11.	16955	HANDLE STOP, RIGHT (1400)	1	
12.	18634	HANDLE, REMOVABLE, INCLUDES (2) #16959 BUSHINGS	1	
13.	16959	HANDLE BUSHING	2	
14.	16963	HANDLE MOUNT, PLATED	2	
15.	17182	HANDLE STOP BRACKET		2
16.	17261	SPACER SLEEVE		2
17.	18638	HANDLE SPACER, (1400)	1	
18.	F051804FWS	HEX HEAD FLANGE SCREW, 5/16-18 X 1/2 LG.	2	2
19.	F05SW	WASHER, 5/16	2	2
20.	F061606FWS	HEX HEAD FLANGE SCREW, 3/8-16 X 3/4 LG.	1	
21.	F061610FWS	HEX HEAD FLANGE SCREW, 3/8-16 X 1-1/4 LG.	1	
22.	F0616ELN	LOCKNUT, 3/8-16, NYLOC	2	
23.	F0616FN	FLANGE LOCKNUT, 3/8-16	2	
24.	F06SW	WASHER, 3/8	1	
25.	F081307HCS	HEX HEAD CAP SCREW, 1/2-13 X 7/8 LG.	1	4
26.	F081310HCS	HEX HEAD CAP SCREW, 1/2-13 X 1-1/4 LG.	1	
27.	F081316HCS	HEX HEAD CAP SCREW, 1/2-13 X 2 LG.		2
28.	F08LW	LOCKWASHER, 1/2	1	6
29.	F08SW	WASHER, 1/2		2
30.	M12ETLW	LOCKWASHER, M12, EXTERNAL TOOTH	1	
31.				
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WARRANTY

WHAT DOES THIS WARRANTY COVER? MBW, Incorporated (MBW) warrants each New Machine against defects in material and workmanship for a period of twelve (12) months. "New Machine" means a machine shipped directly from MBW or authorized MBW dealer to the end user. This warranty commences on the first day the machine is sold, assigned to a rental fleet, or otherwise put to first use.

MBW warrants each Demonstration Machine against defects in material and workmanship for a period of six (6) months. "Demonstration Machine" means a machine used by MBW or its agents for promotional purposes. This warranty commences on the first day the machine is sold, assigned to a rental fleet, or otherwise put to first use.

This warranty covers the labor cost for replacement or repair of parts, components, or equipment on New Machines or Demonstration Machines, and MBW shall pay labor costs at MBW's prevailing rate to affect the warranted repair or replacement. MBW reserves the right to adjust labor claims on a claim-by-claim basis.

This warranty covers the shipping cost of replacement parts, components, or equipment via common ground carriers from MBW to an authorized MBW dealer. Air freight is considered only in cases where ground transportation is not practical.

MAY THIS WARRANTY BE TRANSFERRED? This warranty is non-transferable and only applies to the original end user of a new machine or demonstration machine.

WHAT DOES THIS WARRANTY NOT COVER?

1.This warranty does not cover any Used Equipment. "Used Equipment" means any MBW machine or equipment that is not a New Machine or a Demonstration Machine. All Used Equipment is sold **AS IS/WHERE IS WITH ALL FAULTS.**

2.This warranty does not cover any New Machine, Demonstration Machine, or their equipment, parts, or components altered or modified in any way without MBW's prior written consent. This warranty does not cover the use of parts not specifically approved by MBW for use on MBW products. This warranty does not cover misuse, neglect, shipping damage, accidents, acts of God, the operation of any New Machine or Demonstration Machine in any way other than recommended by MBW in accordance with its specifications, or any other circumstances beyond MBW's control. This warranty does not cover any New Machine or Demonstration Machine repaired by anyone other than MBW factory branches or authorized MBW distributors.

3.This warranty does not cover, and MBW affirmatively disclaims, liability for any damage or injury resulting directly or indirectly from design, materials, or operation of a New Machine or Demonstration Machine or any other MBW product. MBW's liability with respect to any breach of warranty shall be limited to the provisions of this document and in no event shall exceed an amount equal to the purchase price of the New Machine or Demonstration Machine purchased from MBW.

4.This warranty does not cover engines, motors, and other assemblies or components produced by other manufacturers and used on a New Machine or Demonstration Machine, as said engines, motors, and other assemblies or components may have warranties provided by the manufacturer thereof. This warranty does not apply to consumable items, such as v-belts, filters, trowel and screed blades, seals, shock mounts, batteries, and the like, all of which are sold AS IS/WHERE IS WITH ALL FAULTS.

5.This warranty does not cover the cost of transportation and other expenses which may be connected with warranty service but not specifically mentioned herein.

6.This warranty does not cover any updates to any New Machine, Demonstration Machine, or any other MBW product. MBW reserves the right to improve or make product changes without incurring any obligation to update, refit, or install the same on New Machines or Demonstration Machines previously sold.

WHAT MUST YOU DO TO OBTAIN WARRANTY COVERAGE? Each New Machine or Demonstration Machine is accompanied by a Warranty Registration Card. You must sign, date, and return the Warranty Registration Card to the place of origin of the New Machine or Demonstration Machine, either to MBW, Inc. at P.O. Box 440, Slinger, Wisconsin 53086, MBW (UK), Ltd. at Units 2 & 3 Cochrane Street, Bolton BL3 6BN, United Kingdom or MBW FRANCE SARL at ZA D'Outreville, 5 Rue Jean Baptiste Neron, Bornel 60540 France, within ten (10) days after purchase, assignment to a rental fleet, or first use. This signed warranty card is the buyer's affirmation that he has read, understood, and accepted the warranty at the time of purchase. Failure to return the warranty card as specified herein renders the warranty null and void. In order to receive warranty coverage consideration, warranty claims must be submitted within thirty (30) days after the New Machine or Demonstration Machine fails. Warranty claims must be submitted to MBW, Inc., MBW (UK), Ltd. or MBW FRANCE SARL, and written authorization for the return of merchandise or parts under the warranty must be obtained before shipment to MBW.

WHAT WILL MBW DO? MBW's obligation under this warranty is limited to the replacement or repair of parts for a New Machine or Demonstration Machine at MBW factory branches or at authorized MBW distributors, and such replacement or repair is the exclusive remedy provided hereunder. Labor must be performed at an authorized MBW distributor. MBW reserves the right to inspect and render a final decision on each warranty case, and MBW's repair or replacement is solely within the discretion of MBW.

IT IS EXPRESSLY AGREED THAT THIS SHALL BE THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. UNDER NO CIRCUMSTANCES SHALL MBW BE LIABLE FOR ANY COSTS, LOSS, EXPENSE, DAMAGES, SPECIAL DAMAGES, INCIDENTAL DAMAGES, OR PUNITIVE DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM THE USE OF THE NEW MACHINE OR DEMONSTRATION MACHINE WHETHER BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY.

THE FOREGOING WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR USE, AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER OBLIGATIONS OR LIABILITY ON MBW'S PART. MBW NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME ON BEHALF OF MBW ANY OTHER LIABILITY OR WARRANTY IN CONNECTION WITH THE SALE OR SERVICE OF ANY NEW MACHINE, DEMONSTRATION MACHINE , OR ANY OTHER MBW PRODUCT.